

***Acanthamoeba* sp., Strain CDC:V021**

Catalog No. NR-46461

Product Description: *Acanthamoeba* sp., strain CDC:V021 is a clinical isolate collected from a man's brain in the USA in 1985.

Lot¹: 62692908

Manufacturing Date: 06JUN2014

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of 18S ribosomal RNA gene (~ 430 base pairs)	Consistent with <i>Acanthamoeba</i> sp.	Consistent with <i>Acanthamoeba</i> sp. ² (Genotype T4)
Functional Activity by PCR Amplification³ 18S ribosomal RNA gene (amplicon ASA.S1)	423 to 551 base pair amplicon	~ 450 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	8.2 x 10 ⁶ cells/mL
Viability (post-freeze)⁴	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth

¹NR-46461 was produced by cultivation of the deposited material in PYG Medium (ATCC® medium 712) for 3 days at 25°C in an aerobic atmosphere and preserved.

²> 99.8% identical to *Acanthamoeba* sp., strain CDC:V021 (GenBank: AY702984.1)

³PCR amplification was performed using the JDP1 and JDP2 primer set (JDP1: 5'-GGCCCAGATCGTTTACCGTGAA-3' and JDP2: 5'-TCTCACAAGCTGCTAGGGAGTCA-3') as described in Schroeder, J. M. et al. "Use of Subgenetic 18S Ribosomal DNA PCR and Sequencing for Genus and Genotype Identification of *Acanthamoebae* from Humans with Keratitis and from Sewage Sludge." *J. Clin. Microbiol.* 39 (2001): 1903-1911. PubMed: 11326011.

⁴Viable cells were observed after 1 day under cultivation conditions.

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 23 OCT 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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